

Bucket Elevator

Seal Position: **Head shaft**

Industry: **Pulp and Paper**

Challenge

Excessive lime dust leakage from the OEM head shaft seals contaminated the adjacent pillow block bearing and surrounding process area. The OEM sealing method was a braided compression packing. Due to the nature of the product, and the inability to provide any type of flush, the compression packing required constant maintenance and would need to be replaced every three months.

Along with the excessive maintenance costs associated with continuously tightening and replacing the packing, the mill had to install an on-site car wash to protect employee vehicles from leaking lime dust that was transported to the parking lot on windy days.

Solution

An Inpro/Seal® Air Mizer® CEMA shaft seal was installed. The Air Mizer CEMA is a non-contacting, non-wearing shaft seal specifically for CEMA designed conveying equipment. It's unique design utilizes a positive air purge to permanently eliminate product leakage.

Result

The Air Mizer CEMA shaft seals were installed in 2011 and performance has been outstanding with zero maintenance issues. Replacement seals were ordered in 2020.



Before: Lime dust leaking onto adjacent pillow block bearing and surrounding area



After: Inpro/Seal Air Mizer CEMA shaft seal installed



Inpro/Seal Air Mizer CEMA